

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/IL2004/000012

**A. CLASSIFICATION OF SUBJECT MATTER**  
IPC 7 B81B1/00 B82B3/00 C07K4/00 C07K5/00

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 B81B B82B C07K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

MEDLINE, BIOSIS, EPO-Internal

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	GÖRBITZ C H: "Nanotube formation by hydrophobic dipeptides." CHEMISTRY (WEINHEIM AN DER BERGSTRASSE, GERMANY) GERMANY 3 DEC 2001, vol. 7, no. 23, 3 December 2001 (2001-12-03), pages 5153-5159, XP001180634 ISSN: 0947-6539 the whole document --- -/--	1-393

☒ Further documents are listed in the continuation of box C.

☐ Patent family members are listed in annex.

### \* Special categories of cited documents:

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"G" document member of the same patent family

Date of the actual completion of the international search

14 April 2004

Date of mailing of the international search report

10/05/2004

Name and mailing address of the ISA

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>RECHES MEITAL ET AL: "Amyloid fibril formation by pentapeptide and tetrapeptide fragments of human calcitonin" JOURNAL OF BIOLOGICAL CHEMISTRY, vol. 277, no. 38, 20 September 2002 (2002-09-20), pages 35475-35480, XP002276670 ISSN: 0021-9258 the whole document</p> <p>---</p>	1-393
A	<p>HALDAR D ET AL: "First crystallographic signature of the highly ordered supramolecular helical assemblage from a tripeptide containing a non-coded amino acid" TETRAHEDRON LETTERS, ELSEVIER SCIENCE PUBLISHERS, AMSTERDAM, NL, vol. 43, no. 14, 1 April 2002 (2002-04-01), pages 2653-2656, XP004343975 ISSN: 0040-4039 the whole document</p> <p>---</p>	1-393
A	<p>MAJI S K ET AL: "Fibril-forming model synthetic peptides containing 3-aminophenylacetic acid" TETRAHEDRON, ELSEVIER SCIENCE PUBLISHERS, AMSTERDAM, NL, vol. 58, no. 43, 21 October 2002 (2002-10-21), pages 8695-8702, XP004390176 ISSN: 0040-4020 the whole document</p> <p>---</p>	1-393
A	<p>HARTGERINK, CLARK AND GHADIRI: "Peptide nanotubes and beyond." CHEMISTRY, A EUROPEAN JOURNAL, vol. 4, no. 8, 1998, pages 1367-1372, XP002276851 the whole document</p> <p>---</p>	1-393
A	<p>REZA GHADIRI M ET AL: "SELF-ASSEMBLING ORGANIC NANOTUBES BASED ON A CYCLIC PEPTIDE ARCHITECTURE" NATURE, MACMILLAN JOURNALS LTD. LONDON, GB, vol. 366, 25 November 1993 (1993-11-25), pages 324-327, XP002936460 ISSN: 0028-0836 the whole document</p> <p>---</p>	1-393
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Inter: Application No  
PCT/IL2004/000012

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A,P	HORNE W SETH ET AL: "A heterocyclic peptide nanotube." JOURNAL OF THE AMERICAN CHEMICAL SOCIETY. UNITED STATES 6 AUG 2003, vol. 125, no. 31, 6 August 2003 (2003-08-06), pages 9372-9376, XP002276671 ISSN: 0002-7863 the whole document	1-292
P,X	RECHES MEITAL ET AL: "Casting metal nanowires within discrete self-assembled peptide nanotubes." SCIENCE. UNITED STATES 25 APR 2003, vol. 300, no. 5619, 25 April 2003 (2003-04-25), pages 625-627, XP002276672 ISSN: 1095-9203 the whole document	1-393